

780.29767X00
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas J. CAMPANA, JR. et al # 30 | Sub Appendix
Serial No.: 07/702,938 | R. Morgan
Filed: May 20, 1991 | 6/12/95
For: SYSTEM FOR INTERCONNECTING ELECTRONIC
MAIL SYSTEMS BY RF COMMUNICATIONS
Group: 2608
Examiner: G. Oehling
Batch: I63

95 JUN 12 AM 10:26
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GROUP 260

SUBMISSION OF SUBSTITUTE APPENDIX

Honorable Commissioner of
Patents and Trademarks
Washington, D. C. 20231

June 9, 1995

Sir:

On June 8th, Examiner Oehling called to inform the undersigned that the printer requires replacement of the Appendix as part of the printing process of the patent to issue.

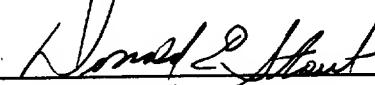
Submitted herewith is a clear substitute identical Appendix for inclusion in the Patent. The Appendix conforms to the previous substitute Appendix substituted earlier in this application, including the deletion of Copyright notices on pages 4 and 10.

If the Examiner, for any reason, finds the Substitute Appendix submitted herewith to be unacceptable, it is requested that he call the undersigned immediately.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, Deposit Account No. 01-2135 (780.29767X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS



Donald E. Stout
Donald E. Stout
Registration No. 26,422
(703) 312-6600

Attachment

DES:dlh

H2/2

Copyright Thomas Campana, Jr. 1991

```
#define ATT_EMAIL_FILE      "TFMOBOX.TMP"
#define DELIMITER              "End of Telefind Network Message\n"
```

```

#include <string.h>
#include <time.h>
#include <stdio.h>
#include <dos.h>
#include "safari.h"

void main(void)
{
    FILE *infile,*outfile;
    char buffer[81],chr,timestr[6],datestr[9];
    char msg_num[4];
    int msg_num_opt = 0;
    char *ptr;
    int x,day,month,line=1,attmail=0;
    time_t t;

    if ((infile = fopen(ATT_EMAIL_FILE,"rt")) == NULL)
    {
        printf("%s does not exist\n",ATT_EMAIL_FILE);
        exit(0);
    }
    if ((outfile = fopen("tfmobox.$$$","wt")) == NULL)
    {
        printf("Can't open TFMBOX.$$$\n");
        exit(0);
    }

    for(;;)
    {
        /*      get characters from .tmp file      */
        x = 0;
        do
        {
            chr = fgetc(infile);
            if (feof(infile))
            {
                fclose(infile);
                fclose(outfile);
                exit(0);
            }
            buffer[x++] = chr;
        }
        /*      until end of line      */
        while (chr != '\n' && x != 80);

        buffer[x] = '\0';      /*      terminate it      */

        if (line == 1)
        {
            ptr = strchr(buffer,'!');
            if (ptr-buffer == 2) /*      was 3rd character      */
            {
                sscanf(buffer,"%[^!]",msg_num);
                msg_num_opt = 1;
                ptr++;
            }
            else
                ptr = buffer;
        }
        if (*ptr == ':' && *(ptr+1) == 'D')
            attmail = 1;
    }

    if (attmail)
    {
        switch(line)

```

```

        case 1:
            /*      datestr = mm/dd, timestr = hh:mm      */
            sscanf(datestr,"%d/%d",&month,&day);           */
            /*      get year from pc      */
            t = time(NULL);
            fprintf(outfile,"Date: %s",ctime(&t));
            break;
        case 2:
            fprintf(outfile,"From: %s",buffer);
            break;
        case 3:
            fprintf(outfile,"Subject: %s",buffer);
            fprintf(outfile,"To: <Name here>\n");
            if (msg_num_opt)
                fprintf(outfile,"Message #%-s\n",msg_num);
            break;
        default:
            fprintf(outfile,"%s",buffer);
            break;
    }
}
else
{
    if (line == 1)
    {
        t = time(NULL);
        fprintf(outfile,"Date: %s",ctime(&t));
        fprintf(outfile,"From: tfmobox\n");
        fprintf(outfile,"Subject: Telefind Network Message\n");
        fprintf(outfile,"To: <Name here>\n");
        if (msg_num_opt)
        {
            fprintf(outfile,"Message #%-s\n",msg_num);
            fprintf(outfile,"%s",buffer+3);
        }
        else
            fprintf(outfile,"%s",buffer);
    }
    else
        fprintf(outfile,"%s",buffer);
}
if (strcmp(buffer,DELIMITER) == 0)
{
    msg_num_opt = line = attmail = 0;
}
line++;
}

```

```

/*
Author: MICHAEL P. PONSCHE, SR.
03/13/91

Program: SAFARI3.C
Purpose: TO EXTRACT MESSAGES FROM A TELEFIND PAGER
VIA IN RS-232 PORT ON A PC

Compiler: TURBO C++ 1.0
Memory Model: SMALL
*/

#include <dos.h>
#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <stdlib.h>
#include "safari.h"

/*      CONSTANTS      */

#define DTR_HI      0x01
#define DTR_LO      0xfe
#define RTS_HI      0x02
#define RTS_LO      0xfd
#define DSR_HI      0x20
#define RING_IN     0x40
#define CD_HI       0x80
#define FIVE_TICK    5
#define FIVE_SEC     96
#define TWELVE_SEC   220
#define LOG_FILE     "LOG"
#define INTRO_STRING "Please standby, retrieving messages ..."

/*      FUNCTION PROTOTYPES      */

int beep(void);
void busyoff(void);
void busyon(void);
void disoff(void);
void dison(void);
int link(void);
void print_message(void);
int rxdata(void);
int strobe(void);
int strobe_data(void);
unsigned ticks(void);
int timeout(unsigned start, int delay);

/*      VARIABLE DECLARATIONS      */

char pager_buffer[511];
int com_base,control_reg,status_reg,log_flag;
FILE *log_file;

void main(int num_arg, char **args)
{
    unsigned start;
    int restart,x;

    com_base = 0x3f8;      /*      use com 1 unless command line denotes otherwise      */

    /*      get command line arguments      */

```

```

/*
 all command line arguments begin with a single `-' and
 must be separated by a single space between each other
 and the program name

-1      Use COM port 1
-2      Use COM port 2
-F      Log all activity to a file named LOG      */

if (num_arg > 1)
{
    for (x=1; x<num_arg; x++)
    {
        if (strcmp(args[x],"-1") == 0)
            com_base = 0x3f8;
        if (strcmp(args[x],"-2") == 0)
            com_base = 0x2f8;
        if (strcmp(args[x],"-F") == 0)
            log_flag = 1;
    }
}

if (log_flag)
    if ((log_file = fopen(LOG_FILE,"at")) == NULL)
        printf("Unable to open LOG\n");

control_reg = com_base + 4;
status_reg = com_base + 6;

clrscr();

if (link() == 0)      /*  is pager attached ?      */
{
    printf("Please attach Message Receiver \n");
    exit(0);
}

busyon();      /*  start busy at logic high  */

if (log_flag)
    fprintf(log_file,"Initiating process \n");
    printf("%s\n",INTRO_STRING);
    dison();      /*  push display button  */
    sleep(2);
    do
    {
        start = ticks();
        restart = 0;
        do
        {
            if (beep())
            {
                print_message();
                restart = 1;
                start -= TWELVE_SEC;
                break;
            }
        }
        /* hold display button for 12 seconds  */
        while(! timeout(start,TWELVE_SEC));
    }
    while(restart);

disoff();      /*  release the display button  */
if (log_flag)
{
    fprintf(log_file,"Process Complete \n");
}

```

```

        fclose(log_file);
    }

}

/*          pager beep      */
int beep(void)
{
    /*      accesses the RI line via the Status Register
       which is activated when the pager beeps      */

    unsigned start;

    start = ticks();
    while ( ! timeout(start,FIVE_TICK) )
    {
        if ((inportb(status_reg) & RING_IN) == 0 )
            return(1);
    }
    return(0);
}

/*      busyon & busyoff toggle the DTR line via the
       Control Register to strobe in data from the pager      */

void busyoff(void)
{
    /*      outportb(control_reg,inportb(control_reg) | DTR_HI); */
}

void busyon(void)
{
    /*      outportb(control_reg,inportb(control_reg) & DTR_LO); */
}

/*      dison & disoff toggle the RTS line via the Control Register
       to simulate the pressing of the display button on the pager      */

void dison(void)
{
    /*      outportb(control_reg,inportb(control_reg) | RTS_HI); */
}

void disoff(void)
{
    /*      outportb(control_reg,inportb(control_reg) & RTS_LO); */
}

int Link(void)
{
    /*      accesses the CD line via the Status Register
       which is logic high when pager is connected      */

    if ((inportb(status_reg) & CD_HI) == 0 )
        return(0);
    return(1);
}

void print_message(void)
{
    FILE *file;
    unsigned start;
    int x,y=0,z=0,chr,bit;
}

```

```

busyoff();      /*      ready to accept pager data      */

/*      read until end code received      */
while (chr != 3)
{
    chr = 0;
    start = ticks();

    /*      wait for start bit      */

    do
    {
        bit = strobe();
        if (bit == 0)
            break;
    }
    while (!timeout(start,FIVE_SEC));

    if (bit)
    {
        if (log_flag)
            fprintf(log_file,"Transmission Error, recheck connection\n");
        disoff();
        exit(0);
    }

    /*      strobe out 8 bit data      */

    for (x=1; x<9; x++)
    {
        chr <= 1;
        chr += bit = strobe_data();
    }

    /*      clear out stop bits      */
    for (x=1;x<3;x++)
    {
        strobe_data();
    }

    /*      extract start and end codes from message

        pager signon      02, 1B, 0D, 33
        pager signoff      03      */

    if ((y > 3) && (chr != 3))
    {
        /* pager characters 96 and 97 are converted to
           0xFA and 0xFB to display on pager      */
        if (chr == 0xfa)      /*      convert to CR      */
            chr = '\n';
        if (chr == 0xfb)      /*      convert to TAB      */
            chr = 0x09;

        pager_buffer[z] = chr;
        z++;
    }
    y++;
}

pager_buffer[z] = '\0';      /*      null terminate      */

busyon();      /*      finished receiving data      */

```

```

        if (log_flag)
            fprintf(log_file,"%s\n",pager_buffer);

        if ((file = fopen(ATT_EMAIL_FILE, "at")) == NULL)
            fprintf(log_file,"Unable to open TFMBOX.TMP\n");
        else
        {
            fprintf(file,"%s\n",pager_buffer);
            fprintf(file,"%s",DELIMITER);
            fclose(file);
        }

        start = ticks();
        while(!timeout(start,FIVE_SEC))
        {
/*      wait for erase beep      */
            if (beep()) break;
        }
        sleep(1);      /*      wait one more second      */
    }

int rxdata(void)
{
/*      accesses the DSR line via the Status Register
      which returns the bits value      */

    if (inportb(status_reg) & DSR_HI)
        return(0);
    return(1);
}

int strobe(void)
{
    int bit;

    busyon();
    delay(1);
    busyoff();
    delay(4);
    bit = rxdata();
    return(bit);
}

int strobe_data(void)
{
    int bit;

    busyon();
    delay(2);
    bit = rxdata();
    busyoff();
    delay(1);
    return(bit);
}

unsigned ticks(void)
{
/*      returns timer ticks (approx. 18.2/sec)
      using only lower registers      */

    union REGS in,out;

    in.x.ax = 0x0;
    int86(0x1a,&in,&out);
    return(out.x.dx);
}

```

```
>

int timeout(unsigned start, int delay)
{
    /*      used for timing events of up to approx. 1 hour.
           used in conjunction w/ticks()           */

    unsigned current;

    current = ticks();
    if (start <= current && (start + delay) < current)
        return(1);
    if (start > current && (start - 65535 + delay) < current)
        return(1);
    return(0);
}
```

```

/* mark the end of the command line you built, so you can add ending
   delimiter */
sys_command[i] = NULL;
/* add the ending quote for the users message so shell wont
   interepert special characters */
strcat(sys_command, "'");
/* execute command you built */
system(sys_command);

printf("sending message: %s\n", sys_command);

}
else {
    if(strlen(msg) == 0 ) {
        return(0);
    }
    /* print error for invalid message length */
    printf("telemail error: invalid message length: %s\n", msg);
    return(0);
}

return(i);
}

*****
*
*   function: getline(hold-buffer, input-file-pointer)
*   arguments: pointer to buffer where line read will be heald,
*              file pointer to input file
*   description: reads 1 line of text from the input line and stores the
*                 line read into the buffer passed.
*   returns: -1 if EOF or number of characters read in
*
*****  

getline(buff, fp)
char *buff;
FILE *fp;
{
    int ch, cnt;

    /* keep on reading characetr from file so long as end of file not
       reached or char is the end of line */
    for(cnt = 0; ((ch = fgetc(fp)) != EOF) && ch != '\n'; cnt++) {
        /* MOD BY OT 11/29/90 convert tab to space */
        /* convert tabs to single space */
        if(ch == 9) {
            ch = ' ';
        }
        /* MOD BY OT 11/29/90 dont allow control char */
        /* only load in ascii characters */
        if(isprint(ch) != 0) {
            buff[cnt] = ch;
        }
        else {
            /* turn control characters to spaces */
            buff[cnt] = ' ';
        }
    }
    /* mark the end of the buffer you built */
    buff[cnt] = '\0';
}

```

```

*****  

*  

*   function: send_mesg(message-pointer)  

*   arguments: pointer to text message(capcode,text) to be sent  

*   description: takes passed message text makes sure the first 8 positions  

*                 are numeric(capcode). it builds and executes the network  

*                 send command(netSend.sh) to send the message passed.  

*   returns: 0 if not sent otherwise the number of characters sent out  

*  

*****  

int send_mesg(mesg)
char *mesg;
{
    char sys_command[700];
    int i;
    int ch;
    char *mesg_ptr;

    /* left justify the message passed to remove leading spaces */
    strljust(mesg, 512);
    /* trim off trailing blank spaces from the message */
    strtrim(mesg);

    /* make sure you have a capcode at least */
    if(strlen(mesg) > 8) {

        /* start to build the command to be executed to send message retrieved
           from the mail box */
        strcpy(sys_command, "netSend.sh ");

        /* loop while still more characters in the message */
        for(mesg_ptr = mesg, i = 11; *mesg_ptr != NULL; i++, mesg_ptr++) {

            /* make sure the first 8 positions of the message are numeric */
            if((i < 19) && (*mesg_ptr < '0' || *mesg_ptr > '9')) {
                printf("telemail error: invalid capcode: %s\n", mesg);
                return 0;
            }

            /* is the user didn't separate capcode & message then insert a
               space into the command */
            if(i == 19 && *mesg_ptr != ' ') {
                sys_command[19] = ' ';
                i = 20;
            }

            /* enclose the user's message with ' so shell won't interpret
               special characters */
            if(i == 20) {
                sys_command[20] = '\'';
                i = 21;
            }

            /* put the character from the message onto to the
               command to be executed */
            sys_command[i] = *mesg_ptr;
        }
    }
}

```

```

/* since your just starting clear the message area */
memset(mesg, NULL, MAXMSGLEN);

/* keep on geting lines from the file until you reach end of file */
while(getline(buff, fp) != -1) {

    /* every mail message start with the word "From" */
    if(strncmp(buff, "From ", 5) == 0) {
        /* set flag telling you are currently going thru mail header
           so you dont add it to the message */
        in_header = 1;
        /* call routine to the last message if any exists */
        send_mesg(mesg);
        continue;
    }

    /* a mail header end with the following string */
    if(strncmp(buff, "Content-Length:", 15) == 0) {
        /* turn off flag so you know you are no longer in mail
           message header */
        in_header = 0;
        /* clear the old message since this is a new one */
        memset(mesg, NULL, MAXMSGLEN);
        continue;
    }

    /* if the line you are now reading in not part of the mail header
       add it to the message */
    if(in_header == 0) {
        strljust(buff, 512);
        rtrim(buff);
        /* make sure you dont add more than the message length */
        if( (strlen(buff) + strlen(mesg)) < MAXMSGLEN) {
            strcat(mesg, " ");
            strcat(mesg, buff);
        }
    }

} /* end of read line while */

/* send the last message in the file */
send_mesg(mesg);
}

```



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No: 07/702,938
Filed : May 20, 1991
For : System For Interconnecting
Electronic Mail Systems

Ex: G. Oehling
A.U. 2608

Box DAC
Commissioner of Patents and Trademarks
Washington, D.C. 20231

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNAVOIDABLE UNDER 37 CFR 1.137(a)**

1. Applicant petitions for the revival of the above-identified application.

2. Nature of abandonment

In an office communication from the PTO dated _____ the undersigned has noted that the above-identified application is being forwarded to the Abandoned Files because applicant's response to the Official Action mailed _____ has not been received within the statutory period or any extension requested therefor.

The undersigned has reviewed his records and noted that the response to the Official Action mailed April 21, 1993 was not timely filed within the statutory period or any extension requested therefor.

3. Response filed

The proposed response to the Official Action mailed _____ has been filed on _____ is enclosed herewith.

4. Verified showings from the relevant parties as to the causes of the unavoidable delays are filed herewith.

5. It will be seen from the attached showings that the processing procedures have been carefully reviewed and that steps have been taken to avoid repetition of the events which took place in this case so that a similar error will not be made in the future.

6. Terminal Disclaimer

Abandonment took place on the following date July 21, 1993 and:

Since this petition is within six months of that date no terminal disclaimer is required. A terminal disclaimer equivalent to the period of the application until the date of this petition is attached.

7. Status of applicant

This application is on behalf of

small business entity - fee \$55.00
 verified statement already filed on May 20, 1991
 verified statement attached
other than small business entity - fee \$110.00

8. Fee payment

Charge the petition fee of \$55.00 to Account No. 01-2135 and for any additional fee required. A duplicate of this petition is attached.
A check in the sum of \$ _____ is attached.
 Charge Account No. 01-2135 for any additional fee required.



DONALD R. ANTONELLI
DAVID T. TERRY
MELVIN KRAUS
STANLEY A. WAL
WILLIAM I. SOLOMON
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A
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May 20, 1991

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

Attached please find the application papers of
THOMAS J. CAMPANA, JR., MICHAEL P. PONSCHKE and GARY F.
THELEN, covering new and useful improvements in an SYSTEM FOR
INTERCONNECTING ELECTRONIC MAIL SYSTEMS BY RF COMMUNICATIONS
comprising:

Specification, Twenty-Three (23) Claims and
Abstract of the Disclosure (70 pages)

English Language Declaration and
Power of Attorney (2 pages)

Twelve (12) Sheets of Informal Drawings
showing Figs. 1-12 and a copy

Verified Statement Claiming Small Entity
Status -- Independent Inventor (2 pages)

Appendix - 14 pages of control programs

Information Statement

U.S. Government Filing Fee of \$345.00

U.S. Government Assignment Recording Fee of \$8.00

Please charge any shortages in the fees or credit
any overpayment thereof to the Deposit Account of Antonelli,
Terry, Stout & Kraus, Account No. 01-2135 (780.29767X00).

Respectfully submitted,


Donald E. Stout
Registration No. 26,422
ANTONELLI, TERRY, STOUT & KRAUS

Enclosures

DES:dlh



PART C - CHARGE TO DEPOSIT ACCOUNT

780.29767X00

1. CORRESPONDENCE ADDRESS

ANTONELLI, TERRY, STOUT & KRAUS
1919 PENNSYLVANIA, N.W., SUITE 600
WASHINGTON, D.C. 20006

26M270207

104

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
07/702,938	05/20/91	062	DEHLING, G	2608 02/07/95
First Named Applicant	CAMPANA	THOMAS J.		1R.

TITLE OF
INVENTION
SYSTEM FOR INTERCONNECTING ELECTRONIC MAIL BY RF COMMUNICATIONS AND
METHOD OF OPERATION THEREOF (AS AMENDED)

ATTY'S DOCKET-NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
780.29767X00	379-059-100	163	Utility	Yes	\$605.00	05/08/95

DO NOT USE THIS SPACE

ANTONELLI, TERRY, STOUT & KRAUS
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

ANTONELLI, TERRY,
STOUT & KRAUS

NTP Incorporated
Annandale, VA.

2a. The following fees are enclosed:

Issue Fee Advance Order - # of Copies _____

2b. The following fees should be charged to:

DEPOSIT ACCOUNT NUMBER 01-2135

Issue Fee Advance Order - # of Copies _____

Any Deficiencies in Enclosed Fee

The COMMISSIONER OF PATENTS AND TRADEMARKS is
requested to apply the Issue Fee to the application identified above.

(Authorized Signature)

Reg. No. 70012135
Date 5/8/95

NOTE: The Issue Fee will not be accepted from anyone other than the
applicant; a registered attorney or agent; or the assignee or other party
in interest as shown by the records of the Patent and Trademark Office.

TRANSMIT THIS FORM WITH PART B WHEN AUTHORIZING USE OF A DEPOSIT ACCOUNT

Form should be used for transmitting the ISSUE FEE. Blocks 2 through 6 should be completed where appropriate. Correspondence including the Issue Fee Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to addressee entered in Block 1 unless you direct otherwise, by: (a) specifying a new correspondence address in Block 3 below; or (b) providing the PTO with a separate "FEE ADDRESS" for maintenance fee notifications with the payment of Issue Fee or thereafter. See reverse for Certificate of Mailing.

CORRESPONDENCE ADDRESS		2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change)	
 ANTONELLI, TERRY, STOUT & KRAUS 1919 PENNSYLVANIA, N.W., SUITE 600 WASHINGTON, D.C. 10006		INVENTOR'S NAME Street Address City, State and ZIP Code CO-INVENTOR'S NAME Street Address City, State and ZIP Code	<input type="checkbox"/> Check if additional changes are on reverse side

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
07/702,938	05/20/91	062	OEHLING, G	2608 02/07/95
First Named Applicant	CAMPANA,		THOMAS J.	JR.

TITLE OF INVENTION SYSTEM FOR INTERCONNECTING ELECTRONIC MAIL BY RF COMMUNICATIONS AND METHOD OF OPERATION THEREOF (AS AMENDED)

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
780-29767X00	379-058.000	163	UTILITY	YES	\$605.00	05/08/95

3. Correspondence address change (Complete only if there is a change)
ANTONELLI, TERRY, STOUT & KRAUS
1300 North Seventeenth Street
Suite 1800
Arlington, VA. 22209

4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.

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